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2                   **Method and System for Scalable, High Performance**

3                   **Hierarchical Storage Management**

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6                   **ABSTRACT OF THE INVENTION**

7                   Disclosed is a mechanism of managing an hierarchical storage management  
8 (HSM) system including an HSM server and a file server having a managed file  
9 system where the HSM server and the file server are interconnected via a network.  
10 Migration of data files from the file server to the HSM server is accomplished by  
11 providing at least one list for identifying candidate files to be migrated, scanning the  
12 managed file system until having detected a prespecified number of migration  
13 candidate files, recording the detected migration candidate files in the provided at  
14 least one list of candidate files, monitoring a current state of the managed file system,  
15 and migrating at least part of the candidate files identified in the at least one list of  
16 candidate files from the file server to the HSM server, dependent on the monitored  
17 current state of the managed file system. In parallel, the migrated data files can be  
18 identified by a unique identifier that allows direct access to the migrated files. The  
19 mechanism enables an efficient handling of large amounts of file based information  
20 in the HSM environment by way of an automigration process and is highly scalable  
21 with respect to the amount of file based information.